



## MPE Test Report

**Report No.:** CPSD-ESH-P25010188B-4

**FCC ID:** 2BRRF-H6028

**Product:** Wireless Speaker Led Lamp

**Model:** H6028A BLK, H6028A WHT, H6028B BLK, H6028B WHT, NCH6028 BLK, NCH6028 WHT, YH6028 BLK, YH6028 WHT

**Received Date:** Jan.07, 2024

**Test Date:** Jan.07 to Feb.24, 2025

**Issued Date:** Feb.25, 2025

**Applicant:** Enchante Accessories

**Address:** 16 East 34th Street ,3rd Fl New York , NY 10016

**Manufacturer:** Ningbo Beslight exp & imp, Co., LTD

**Address:** No 239 Wangshan Road, JiangBei,NingBo,ZheJiang,China

**Issued By:** BUREAU VERITAS ADT (Shanghai) Corporation

**Lab Address:** No. 829, Xinzhan Road, Shanghai, P.R.China (201612)

**FCC Registration /**  
**Designation Number:** 176467/ CN1213



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### Release Control Record

Issue No.	Description	Date Issued
CPSD-ESH-P25010188B-4	Original release	Feb.25, 2025



## 1 Certificate of Conformity

**Product:** Wireless Speaker Led Lamp

**Brand:** --

**Model:** H6028A BLK, H6028A WHT, H6028B BLK, H6028B WHT, NCH6028 BLK, NCH6028 WHT, YH6028 BLK, YH6028 WHT

**Applicant:** Enchante Accessories

**Test Date:** Jan.07 to Feb.24, 2025

**Standards:** FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

The above equipment has been tested by **BUREAU VERITAS ADT (Shanghai) Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**Prepared by :**

Handwritten signature of Yuan Zhang.

, **Date:** Feb.25, 2025

Yuan ZHANG

Project Engineer

**Approved by :**

Handwritten signature of Sean Yu.

, **Date:** Feb.25, 2025

Sean YU

RF Supervisor



## 2 General Information

### 2.1 General Description of EUT

#### BLE

Product	Wireless Speaker Led Lamp
Brand	--
Model	H6028A BLK, H6028A WHT, H6028B BLK, H6028B WHT, NCH6028 BLK, NCH6028 WHT, YH6028 BLK, YH6028 WHT
Difference	All models are same except appearance and model name.
Power Rating	5Vdc, 1A
Modulation Type	GFSK
Modulation Technology	Bluetooth Low Energy
Operating Frequency	2402MHz ~ 2480MHz
Number of Channel	40
Output Power	2.73 dBm
Antenna Type	PCB Antenna
Antenna Connector	--
Antenna Gain	2.57dBi

Note:

1. For more details, please refer to the User's manual of the EUT.
2. The cable loss of the cable from EUT will be compensated in the test data.

**BT**

Product	Wireless Speaker Led Lamp
Brand	--
Model	H6028A BLK, H6028A WHT, H6028B BLK, H6028B WHT, NCH6028 BLK, NCH6028 WHT, YH6028 BLK, YH6028 WHT
Difference	All models are same except appearance and model name.
Power Rating	5Vdc, 1A
Modulation Type	GFSK, $\pi/4$ -DQPSK, 8DPSK
Modulation Technology	BT-BDR, BT-EDR
Operating Frequency	2402MHz ~ 2480MHz
Number of Channel	79
Output Power	5.50dBm
Antenna Type	PCB Antenna
Antenna Connector	--
Antenna Gain	2.57dBi

**Note:**

1. For more details, please refer to the User's manual of the EUT.
2. The cable loss of the cable from EUT will be compensated in the test data.



### 3 RF Exposure

#### 3.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1,500	-	-	F/1500	30
1,500-100,000	-	-	1.0	30

F = Frequency in MHz

#### 3.2 MPE Calculation Formula

Power density (S) is calculated according to the formula:

$$S = PG / (4\pi R^2)$$

Where S = power density in mW/cm<sup>2</sup>

P = transmit power in mW

G = numeric gain of transmit antenna (numeric gain=Log-1(dB antenna gain/10))

R = distance (cm)

#### 3.3 MPE Calculation Formula

The antenna of this product, under normal use condition, is at least 20cm from the body of the user. So the device is classified as **Mobile Device**.

#### 3.4 Calculation Result of Maximum Permissible Exposure

Frequency Band (MHz)	Max. Conducted output power(dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
2402-2480(BLE)	2.73	2.57	20	0.000674	1
2402-2480(BT)	5.50	2.57	20	0.001276	1

#### Conclusion:

The calculation result of MPE is less than the limit.

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